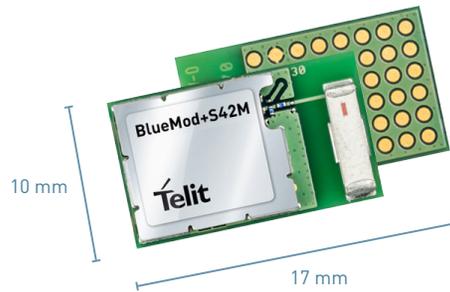


BlueMod+S42M

Bluetooth Low Energy Single Mode Module



Product description

Simple to integrate, the BlueMod+S42M single mode Bluetooth sensor module is the fast-track, cost effective solution for space constrained IoT projects. It delivers long battery life, robust security and includes features that ease the development process such as multiple interfaces, software stack, and supports GATT-based profiles.

A true system on chip (SoC), the BlueMod+S42M is also equipped with an on-board micro controller, integrated chip antenna, passive components, T°/Humidity sensor, and an accelerometer.

Choose Telit when reliability and confidence matter. Connect with confidence for applications that demand security. React quickly to applications that require accurate, timely measurements of temperature and humidity such as cold chain monitoring in pharmaceutical and agriculture industries. For those critical and fragile packages, accurate vibration is detected with the 3-axis accelerometer.

Profiles

The BlueMod+S42M supports the Terminal I/O profile. Terminal I/O works similar to SPP and offers a simple point-to-point connection, including flow control over-the-air. This feature is ideal for use cases that require low data rates and transparent data exchange. Controlled by an AT command interface, the module also comes with a generic GATT interface. This interface allows the use of any Bluetooth Low Energy standard profile as well as customer specific proprietary profiles.

Key Features

- Bluetooth v4.2 Qualified Module
- RED, SRCC Certified
- Generic GATT Client and Server
- LE Secure Connections
- Configurable DIS (Device Information Service)
- LE Data Length Extension
- Terminal I/O for Easy Transparent Data Transfer (BLE - SPP like)
- Embedded Sensors
- Over-the-Air Updates
- Sample Code for iOS and Android
- WeChat AirSync Protocol

Applications

- Cold chain monitoring
- Industrial
- Special package handling
- Medical/Pharmaceutical
- Remote controls
- Home automation
- Toys
- LE HID
- Beacon
- Access control

Family Concept

The BlueMod+S and BlueMod+SR as well as the BlueMod+S42 modules are mechanically and electrically compatible. The modules also have compatible software interfaces, and can easily be replaced by each other without additional changes to the hardware or software.



Combine your BLE module with

Cellular modules



GNSS modules



www.telit.com

Complete, Ready to Use Access to the Internet of Things



IoT MODULES



IoT CONNECTIVITY



IoT PLATFORMS



IoT KNOW-HOW



BlueMod+S42M

Features

- Over-the-Air updates
- Embedded T°/H sensor (option)
- Embedded 3 Axis accelerometer(option)

Environmental

- LGA pads (49)
- Integrated ceramic antenna
- Length x Width x Height: 17x10x2.6 mm
- Temperature range: 0°C to +70°C

Interfaces

- UART: 9600 bps – 921600 bps (asynchronous)
- Other interfaces: I²C, SPI, PWM
- GPIOs: Up to 21

Approvals

- Bluetooth Qualification 4.2
- RED, SRCC

Electrical & Sensitivity

- Power supply: 1.8V to 3.6V
- Transmit Power: 0 dBm
- Receiver Sensitivity: -93 dBm
- Max power consumption transmission: 5.2 mA
- Max power consumption reception: 6.9 mA
- Power consumption standby: 1.1µA
- Power consumption sleep: 0.2 µA

Tools

- BlueEva+S42M: evaluation kit
- BlueDev+S42M: development kit

[06.-2017] Telit reserves all rights to this document and the information contained herein. Products, names, logos and designs described herein may in whole or in part be subject to intellectual property rights. The information contained herein is provided "as is". No warranty of any kind, either express or implied, is made in relation to the accuracy, reliability, fitness for a particular purpose or content of this document. This document may be revised by Telit at any time. For most recent documents, please visit www.telit.com
Copyright © 2017, Telit
* Copyright © 1990-2017, Python Software Foundation



Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all IoT topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing IoT community and exchange experiences.

Telit Communications S.p.A.
Via Stazione di Prosecco, 5/B
I-34010 Sgonico (Trieste), Italy
Phone +39 040 4192 200
Fax +39 040 4192 383
E-Mail EMEA@telit.com

Telit Wireless Solutions Inc.
3131 RDU Center Drive, Suite 135
Morrisville, NC 27560, USA
Phone +1 888 846 9773 or +1 919 439 7977
Fax +1 888 846 9774 or +1 919 840 0337
E-Mail NORTHAMERICA@telit.com

Telit Wireless Solutions Inc.
Rua Paes Leme, 524, Conj. 126
05424-101, Pinheiros
São Paulo-SP-Brazil
Phone +55 11 3031 5051
Fax +55 11 3031 5051
E-Mail LATINAMERICA@telit.com

Telit Wireless Solutions Co., Ltd.
8th Fl., Shinyoung Securities Bld.
6, Gukjegeumyung-ro8-gil, Yeongdeungpo-gu
Seoul, 150-884, Korea
Phone +82 2 368 4600
Fax +82 2 368 4606
E-Mail APAC@telit.com

www.telit.com

 www.telit.com/techforum
 www.telit.com/facebook
 www.twitter.com/Telit_IoT